



# R&S® NGE100B

## versus GW GPS-3303



### Key features

- ▶ All channels are galvanically isolated and floating
- ▶ All channels are electrically equivalent with the same voltage, current and power
- ▶ Parallel and serial operation
- ▶ Protective functions to safeguard instrument and DUT
- ▶ Tracking and link functions
- ▶ Remote control via USB interface and optional LAN

Your benefit	Features
Straightforward operation	<ul style="list-style-type: none"> <li>▶ All basic functions can be performed via dedicated keys on the front panel</li> <li>▶ The voltage or current can be adjusted with the rotary knob</li> </ul>
Each output channel can work like an individual power supply	<ul style="list-style-type: none"> <li>▶ All channels are electrically equivalent, galvanically isolated, floating and can be combined in serial and in parallel to achieve higher voltages or currents</li> </ul>
Small, compact and quiet	<ul style="list-style-type: none"> <li>▶ Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size while maintaining robustness and low ripple</li> </ul>

Parameter	R&S® NGE100B	GW GPS-3303
Size	½ / 19" 2HU	non-standard
Channels	2 or 3	3
Equivalent channels	yes	no
All channels galv. isolated	yes	yes
Voltage	0 V to 32 V	0 V to 30 V / 5 V
Current	0 A to 3 A	0 A to 3 A
Max. output power	66 W / 100 W	195 W
Ripple V (20Hz to 20MHz)	< 1 mV <sub>RMS</sub>	< 1 mV <sub>RMS</sub>
Ripple I (20Hz to 20MHz)	< 2 mA <sub>RMS</sub>	< 3 mA <sub>RMS</sub>
Display	TFT 3.5" QVGA	7 Segments 3-digit
Setting resolution	10 mV / 1 mA	potentiometer
Readback resolution	10 mV / 1 mA	potentiometer
Sense	no	no
Tracking (V/I)	yes / yes	CH1 / CH2
Arbitrary	EasyArb	no
Electronic fuse	yes, with FuseLink	no
Protection	OCP / OVP / OTP	OCP / OVP / OTP
Interface	USB, LAN (opt.)	none
Command processing time	< 10 ms	none
Certifications	CE, TÜV, LXI	CE, TÜV, LXI



## Arbitrary function

EasyArb				
EasyArb Mode on Ch 1				Enabled
EasyArb Repetition				1
Number of Data Points				4
N	Voltage	Current	Duration	
1	5.00 V	0.900 A	1.00 s	
2	10.00 V	0.700 A	5.00 s	
3	3.00 V	1.000 A	0.03 s	
4	10.00 V	0.800 A	60.00 s	
Apply EasyArb Data				Apply
Clear Data Points				Clear

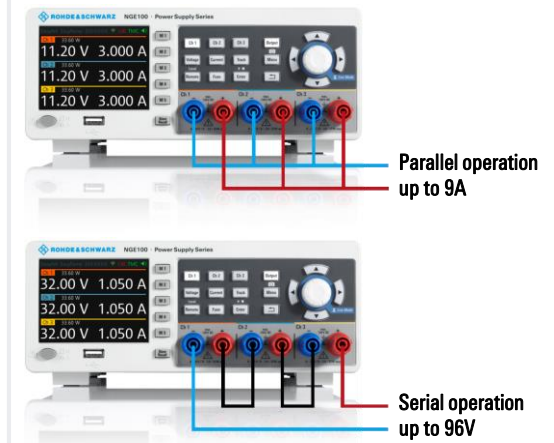
EasyArb allows the user to program time/voltage or time/current sequences.

## Built for production

Digital IO			
DIO 1	DIO 2	DIO 3	DIO 4
Direction	Trigger In		
Channel	Ch 1		
Response	Start EasyArb		
Trigger	Pulse		
Logic	Active High		
Status	Enabled		

Digital I/O option makes production integration a breeze.

## Parallel and serial operation

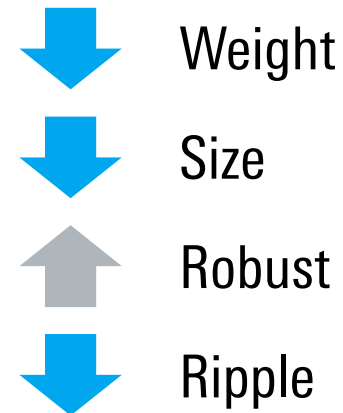


Running in parallel, higher currents can be achieved; serial connected channels yield higher voltages.



With electrically equivalent channels and galvanically isolated outputs, the single channels of the R&S®NGE100B work like individual power supplies.

## The Rohde & Schwarz advantage



Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size, yet maintains robustness and low ripple.

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